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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/623,064	0.	7/18/2003	Hiroshi Akita	TOW-031	2696	
959	7590	03/16/2005	•	EXAMINER ,		
LAHIVE & 28 STATE ST		ELD, LLP.	ACQUAH, SAMUEL A			
BOSTON, M)		ART UNIT	PAPER NUMBER	
· ·				1711		

DATE MAILED: 03/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			U>				
	Application No.	Applicant(s)					
	10/623,064	AKITA ET AL.					
Office Action Summary	Examiner	Art Unit					
	SAMUEL A. ACQUAH	1711					
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.	Y IS SET TO EXPIRE 3 MC	NTH(S) FROM					
 Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a replif NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). 	ly within the statutory minimum of thirty will apply and will expire SIX (6) MONT e, cause the application to become ABA	(30) days will be considered timely. HS from the mailing date of this communication	ion.				
Status							
1) Responsive to communication(s) filed on							
	 s action is non-final.	•					
3) Since this application is in condition for allowa	nce except for formal matte	rs, prosecution as to the merits	is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application	1.						
4a) Of the above claim(s) is/are withdra	wn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-6,8 and 9</u> is/are rejected.							
7) Claim(s) 7 and 10-15 is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election requirement.	•					
Application Papers							
9) The specification is objected to by the Examine							
10) ☐ The drawing(s) filed on is/are: a) ☐ acc	· · · · · · · · · · · · · · · · · · ·						
Applicant may not request that any objection to the		, ,					
Replacement drawing sheet(s) including the correct	,		(d).				
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:							
1.⊠ Certified copies of the priority document	ts have been received.						
2. Certified copies of the priority document	·	•					
3. Copies of the certified copies of the price	•	eceived in this National Stage					
application from the International Burea	• • • • • • • • • • • • • • • • • • • •						
* See the attached detailed Office action for a list	of the certified copies not re	eceived.					
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		mmary (PTO-413) Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Inf 6) Other:	ormal Patent Application (PTO-152)					

DETAILED ACTION

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-6, 8, and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by WO 01/94450.

The cited prior art '450 discloses polymer composition and the method of making. The composition comprises acidic and basic subunits. The composition is used in making solid electrolytes having proton conductivity. The acidic component comprises sulfonated phenylene sulfonic acid and the basic units comprise polybenzimidazole. See pages 2, 3, and 5-8. The prior art has feature and characteristics as claimed.

Claims 1-6, 8, and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by DE 19817374.

The abstract of the '374 discloses acid-base polymer blends produced by reaction of a solution of a polymeric sulfonic acid or sulfonic acid salt and an imidazole

Application/Control Number: 10/623,064 Page 3

Art Unit: 1711

group or benzimidazole group containing polymer in a solvent, followed by evaporation of the solvent. The composition is used in making solid electrolytes for fuel cells.

- 2. Claims 7, and 10-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SAMUEL A. ACQUAH whose telephone number is 571-272-1065. The examiner can normally be reached on M-TH, FRIDAYS OFF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAMES SEIDLECK can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S.A.A. 01/28/05 SAMUEL A. ACQUAH PRIMARY EXAMINER GROUP (220 170 F